

Abstract

GAS-GENERATING PYROTECHNIC COMPOSITIONS WITH A HYDROCARBONACEOUS BINDER AND CONTINUOUS MANUFACTURING PROCESS.

The invention relates to gas-generating pyrotechnic compositions and to a continuous process which allows them to be prepared.

Such compositions comprise a hydrocarbonaceous binder, a nitrogenous organic compound and an oxidizing filler comprising ammonium perchlorate and a chlorine scavenger.

The binder is composed either of the combination of a polyester gum and of a polyester resin or of the combination of an acrylic gum and of a plasticizer for this gum.

The solids (A) and the liquids (B) are introduced into the twin-screw mixer-extruder (1) via two different feed openings. The constituents are then conveyed and kneaded in the compartment (2), so as to obtain a homogeneous paste. This paste is subsequently degassed in the compartment (3) and then extruded in the form of rods (8). These rods are cut up into charges (9).